

## PERMIT CHASSIS MODIFICATION PROCEDURE

This modification brings out the necessary signals to be used by the QPAIC Buffer chassis for Quench Link fault determination.

The modification involving the removal of the Permit Chassis from six service buildings, punching one 15D-sub connector hole on the rear panel, and solder 12 wires to 6 KLOC connectors.

The procedure is divided into following steps:

### Step I. Removal of Permit Chassis from service building.

1. Label all cables that connected to the Permit Chassis prior to the removal.
2. Add rack location label to the Permit Chassis prior to the removal. The Permit Chassis should be put back to its original rack location after modification.

### Part II. Disassemble the Permit Chassis

1. Remove all the screws from the top panel.
2. Punch hole for a 15-pin male D-sub connector on the rear panel.

### Part III. Chassis wiring modification

1. Cut the 15-line ribbon cable to the length of 24 inches. Press fit a 15-pin Male-D-Sub connector to one end.
2. Solder the other end of the ribbon cable to KLOC connectors according to Table 1.
3. Reinstall top cover.

### Part IV. Test the modified chassis.

### Part VIII. Install the modified and tested chassis back to the same rack that was removed.

**Table 1**

Signal Name	15-pin Male-D-Sub Pin Number Rear Panel J11	Ribbon cable line number and color Daughter PCB J11	KLOC connector
BlueQLI+	1	1 – Brown	BlueQLI center
BlueQLI-	9	2 – Red	BlueQLI shield
BlueQLO+	2	3 – Orange	BlueQLO center
BlueQLO-	10	4 – Yellow	BlueQLO shield
BlueReady+	3	5 – Green	BlueReady center
BlueReady-	11	6 – Blue	BlueReady shield
YellowQLI+	4	7 – Violet	YellowQLI center
YellowQLI-	12	8 – Grey	YellowQLI shield
YellowQLO+	5	9 – White	YellowQLO center
YellowQLO-	13	10 – Black	YellowQLO shield
YellowReady+	6	11 – Brown	YellowReady center
YellowReady-	14	12 – Red	YellowReady shield
Not Used	7	13 – Orange	
Not Used	15	14 – Yellow	
Not Used	8	15 – Green	